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RDM

TI INVENTION / INNOVATION DISCLOSURE

SEND COMPLETED FORM TO: TI CORPORATE PATENTS
                           ATTN: Tina Smith
                           E-Mail: tina-smith@ti.com
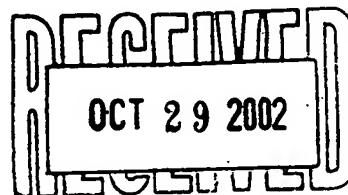   FAX: (972) 917-4418
                           Mail Station M/S 3999
                           PC Drop   PPC-B

HELPLINE: Warren Franz
                           E-Mail   w-franz@ti.com
                           PHONE: (972) 917-5271
                           FAX: (972) 917-4418

If you are employed by a TI subsidiary company, send this form to your site coordinator.

To prepare your invention disclosure, follow the step-by-step directions on the form that follows. Type or print answers to the questions in the spaces provided.

> **PLEASE PROVIDE ANSWERS TO ALL OF THE QUESTIONS
> OTHERWISE THERE COULD BE DELAYS IN PROCESSING**

If you already have an engineering spec, please send it with your invention disclosure. Computer documentation and drawings, marketing foils, notebook entries, paper manuscripts, articles, and any other material that you already have can be copied or sent electronically.

W.H. 08/04/07

RECEIVED
OCT 29 2002

PATENT DISCLOSURE FORM

DOCKET NO. TI-**(to be filled in by Patent Activity)**

1.   Please suggest a descriptive title for your invention:

Autotimer Count-down Images for Digital Cameras

2.   This invention supports strategy: (check 1 or more)

DLP
- ☐ DLP
- ☐ Materials
- ☐ Fab/Processes
- ☐ Assembly/Test/Packaging
- ☐ Other

DSPS
- ☐ Wireless
- ☐ Video
- ☐ Set Top
- ☐ Application Specific
- ☐ Remote/Access/Networking
- ☒ Emerging Markets
- ☐ Mixed Signal & Logic
- ☐ Mass Storage
- ☐ Other

3.   What is the problem solved by your invention?

When using a camera's autotimer, it is usually difficult for the people in front of the lens to determine when exactly the image will be captured. Consequently, during the time between when the shutter-button is pressed and when the image is captured, people may become distracted or give an untimely blink at the instant the photo is captured.

4.   What is your solution to the problem?

Digital cameras, especially those with a flip-around LCD display, contain the basic hardware to display a series of count-down images on the LCD. The count-down images, which in one implementation may display a sequence of numbers from 10 down to 1, will notify the photographic subjects exactly when the exposure will be captured. In another implementation, the count-down
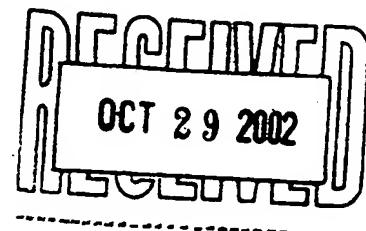
images may contain pictures that would likely cause the photographic subjects to laugh or smile at the appropriate moment when the exposure will be captured. In another implementation, the count-down image may be a short video clip. The images shown during the count-down can be programmed into the camera and stored within it's non-volatile memory for the purpose of being displayed during the count-down timer period.

5.   When was your solution first conceptually or mentally complete?

Date: 10/25/2002

6.   What is the first tangible evidence of such completion?

Date: 10/25/2002

7.   What is different about your solution, compared with other solutions to the same problem?

Although other solutions blink a light or strobe the flash before capturing the image, a visual countdown displayed on an LCD display would be more accurate and more interesting to the people in front of the lens.

8.   What are the advantages of your solution?

This solution informs people of exactly when an image will be captured, thus increasing the likelyhood that they will look their best as the image is captured.

9.   What TI products, processes, projects or operations currently implement your invention?

10.   What is the date of the first implementation?

Date:

11.   What record exists to prove this date?

12.   Is there any future implementation planned?

Yes   ☐   No   ☐

If so, please furnish the TI PART No. or project name

13.   Has the invention been published or disclosed to anyone outside of TI?

Yes   ☐   No   ☒

When?

If planned - when?   (Catalog, advertising, data book, application note, conference paper, magazine article, TI TJ, proposal document.)

Was there a nondisclosure agreement (NDA)?

Yes   ☐   No   ☐

14. Has a TI product incorporating the invention been publicly introduced, quoted, sampled or shipped?

Yes ☐   No ☒

When?   If planned--when?

15. Was the invention conceived or first implemented in the performance of a government contract or subcontract?
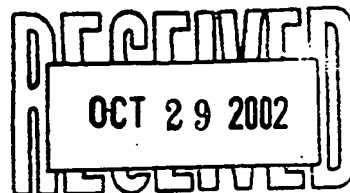
Yes ☐   No ☒

Contract #:

THE INVENTION DESCRIBED BY THIS DISCLOSURE IS SUBMITTED PURSUANT TO MY EMPLOYMENT AGREEMENT WITH TEXAS INSTRUMENTS INCORPORATED OR A TI SUBSIDIARY (SPECIFY):

Has this disclosure been previously sent to the Patent Department electronically (unsigned)?

Yes ☐   No ☒

PLEASE PRINT ALL INVENTOR INFORMATION.

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Date: 10/25/2002

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                                 (First, Middle, Last)

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(First, Middle, Last)

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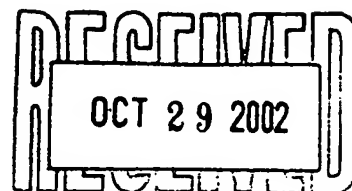**E-Mail Address:**

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Inventor 4's Name: none
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Country of Citizenship:

Inventor 4's Signature: _____

Date:

Mail Station:

◆ ◆

This invention disclosure with any attachments was read and understood by me on

_____*marklippms*_____   _____*10/29/02*_____
Witness 1:   **Date**

This invention disclosure with any attachments was read and understood by me on

_____   _____
Witness 2:   **Date**